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Company Name	KOREA PHOTONICS TECHNOLOGY INSTITUTE
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Exhibitor Introduction (Within 200 words)	<p>Korea Photonics Technology Institute (KOPTI) was founded by the Ministry of Trade, Industry and Energy in 2001. KOPTI is the specialized technology institute for Optics and Photonics technologies which have been designated as one of Korea's new growth engine. After relocation to the new place located in Gwangju metro city in 2004, KOPTI begun to their missions and now 262 people (70% of PhD & MS) are engaging photonics works</p> <p>In particular, KOPTI has supported the needs of the industry by developing technologies, supporting development of productions and building an industrial base for new markets. Also, In terms of technological development, KOPTI has focused on LED, OLED, optical communications, IR optic lens, laser, intelligent optical sensor, 3D convergence, medical photonics and solar cells.</p>
Exhibit Description (Within 200 words)	<p><Micro LED chip separation and transfer technology using CLO and environment variable material></p> <p>X-Celeprint, LuxVue, KOPTI and other major research groups are working hard to develop micro LED chip separation and transfer technology. First, we compare the development technology of competitive research group and explain the technical superiority of KOPTI's CLO-based chip separation and selective transfer method using environmental variable material. CLO chip separation technology can be applied to vertical, lateral and flip chip structures, and it is a technology that can simplify the process and make it large. Transfer technology based on environmental variable material is capable of selectively transferring RGB chip using patterning of materials and is highly economical due to excellent adhesive repeatability compared to PDMS. The development technology of KOPTI can be applied to the mass production of integrated micro LED light source for various applications such as high resolution display, AR / VR, and medical patch.</p>
Exhibit Product	